

Title (en)

METHOD FOR DEPOSITING CATALYST METALS INTO ZEOLITE TO PRODUCE HYDROCARBON PROCESSING CATALYST

Title (de)

METHODE ZUR ABSCHIEDUNG VON KATALYSATORMETALLEN IN EINEM ZEOLITHEN ZUR HERSTELLUNG EINES KATALYSATORS FÜR DIE KOHLENWASSERSTOFFUMWANDLUNG

Title (fr)

PROCEDE POUR DEPOSER DES METAUX POUR CATALYSEUR DANS LA ZEOLITE POUR LA PRODUCTION DE CATALYSEURS DE TRAITEMENT DES HYDROCARBURES

Publication

EP 1007208 A1 20000614 (EN)

Application

EP 98902575 A 19980116

Priority

- US 9800829 W 19980116
- US 3553197 P 19970116

Abstract (en)

[origin: WO9831462A1] An ion exchange method is provided for loading and uniformly distributing noble metals into a catalyst substrate comprising a zeolite to make a monofunctional, non-acidic reforming catalyst. The catalyst substrate is contacted with an aqueous loading solution comprising noble metal cations and non-noble metal cations. The loading solution is formulated such that the equivalents of non-noble metal cations remaining in the catalyst not ionically bonded to the zeolite when loading is complete is 1.2 to 6.0 times the equivalents of non-noble metal cations displaced from the zeolite when the noble metal cations ion exchange into the zeolite, and simultaneously the endpoint pH of the loading solution is between 10.0 and 11.5. The required 1.2 to 6.0 ratio is achieved when the ratio of moles of non-noble metal cations added to the loading solution to moles of noble metal added to the loading solution is between 1 and 10. The use of ion exchange method results in zeolite catalysts having reduced amounts of detrital material in the micropores of the zeolite.

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IPC 8 full level

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CPC (source: EP KR US)

B01J 29/068 (2013.01 - EP KR US); **B01J 29/62** (2013.01 - EP US); **B01J 37/30** (2013.01 - EP US); **C10G 35/095** (2013.01 - EP US); **B01J 2229/186** (2013.01 - EP US); **B01J 2229/20** (2013.01 - EP US)

Citation (search report)

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